

## RAW SEQUENCE LISTING

The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) no errors detected.

Application Serial Number: 10/766/752B  
Source: FW/6  
Date Processed by STIC: 2-1-05

# ***ENTERED***



IFW16

## RAW SEQUENCE LISTING

DATE: 02/01/2005

PATENT APPLICATION: US/10/766,752B

TIME: 12:26:15

Input Set : A:\3033.1008-008 Sequence Listing.txt

Output Set: N:\CRF4\02012005\J766752B.raw

```

4 <110> APPLICANT: Carney, Darrell H.
6 <120> TITLE OF INVENTION: Use of Thrombin-Derived Peptides for the
7   Therapy of Chronic Dermal Ulcers
10 <130> FILE REFERENCE: 3033.1008-008
12 <140> CURRENT APPLICATION NUMBER: US 10/766,752B
13 <141> CURRENT FILING DATE: 2004-01-27
15 <150> PRIOR APPLICATION NUMBER: PCT/US02/01151
16 <151> PRIOR FILING DATE: 2002-01-16
18 <150> PRIOR APPLICATION NUMBER: US 60/308,198
19 <151> PRIOR FILING DATE: 2001-07-27
21 <160> NUMBER OF SEQ ID NOS: 9
23 <170> SOFTWARE: FastSEQ for Windows Version 4.0
25 <210> SEQ ID NO: 1
26 <211> LENGTH: 23
27 <212> TYPE: PRT
28 <213> ORGANISM: Artificial Sequence
30 <220> FEATURE:
31 <223> OTHER INFORMATION: fragment of human thrombin
33 <400> SEQUENCE: 1
34 Ala Gly Tyr Lys Pro Asp Glu Gly Lys Arg Gly Asp Ala Cys Glu Gly
35 1           5           10           15
36 Asp Ser Gly Gly Pro Phe Val
37           20
40 <210> SEQ ID NO: 2
41 <211> LENGTH: 23
42 <212> TYPE: PRT
43 <213> ORGANISM: Artificial Sequence
45 <220> FEATURE:
46 <223> OTHER INFORMATION: thrombin peptide derivative
48 <223> OTHER INFORMATION: Alanine at position 1 is optionally N-acylated
50 <223> OTHER INFORMATION: Valine at position 23 is optionally C-amidated
W--> 52 <221> NAME/KEY: VARIANT
W--> 53 <222> LOCATION: 15
W--> 54 <223> Xaa = Glu or Gln
W--> 56 <221> NAME/KEY: VARIANT
W--> 57 <222> LOCATION: 22
W--> 58 <223> Xaa = Phe, Met, Leu, His or Val
W--> 60 <400> 2
W--> 61 Ala Gly Tyr Lys Pro Asp Glu Gly Lys Arg Gly Asp Ala Cys Xaa Gly
62 1           5           10           15
63 Asp Ser Gly Gly Pro Xaa Val
64           20
67 <210> SEQ ID NO: 3

```

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68 <211> LENGTH: 33
69 <212> TYPE: PRT
70 <213> ORGANISM: Artificial Sequence
72 <220> FEATURE:
73 <223> OTHER INFORMATION: thrombin peptide derivative
75 <223> OTHER INFORMATION: Aspartic acid at position 1 is optionally
76     N-Acylated
78 <223> OTHER INFORMATION: Phenylalanine at position 33 is optionally
79     C-amidated
W--> 81 <400> 3
82 Asp Asn Met Phe Cys Ala Gly Tyr Lys Pro Asp Glu Gly Lys Arg Gly
83 1             5             10             15
84 Asp Ala Cys Glu Gly Asp Ser Gly Gly Pro Phe Val Met Lys Ser Pro
85             20             25             30
86 Phe
90 <210> SEQ ID NO: 4
91 <211> LENGTH: 33
92 <212> TYPE: PRT
93 <213> ORGANISM: Artificial Sequence
95 <220> FEATURE:
96 <223> OTHER INFORMATION: thrombin peptide derivative
98 <223> OTHER INFORMATION: Aspartic acid at position 1 is optionally
99     N-acylated.
101 <223> OTHER INFORMATION: Aspartic acid at position 33 is optionally
102     C-amidated
W--> 104 <221> NAME/KEY: VARIANT
W--> 105 <222> LOCATION: 20
W--> 106 <223> Xaa = Glu or Gln
W--> 108 <221> NAME/KEY: VARIANT
W--> 109 <222> LOCATION: 27
W--> 110 <223> Xaa = Phe, Met, Leu, His or Val
W--> 112 <400> 4
113 Asp Asn Met Phe Cys Ala Gly Tyr Lys Pro Asp Glu Gly Lys Arg Gly
114 1             5             10             15
W--> 115 Asp Ala Cys Xaa Gly Asp Ser Gly Gly Pro Xaa Val Met Lys Ser Pro
116             20             25             30
117 Phe
121 <210> SEQ ID NO: 5
122 <211> LENGTH: 23
123 <212> TYPE: PRT
124 <213> ORGANISM: Artificial Sequence
126 <220> FEATURE:
127 <223> OTHER INFORMATION: thrombin peptide derivative
129 <223> OTHER INFORMATION: Alanine at position 1 is optionally N-acylated
131 <223> OTHER INFORMATION: Valine at position 23 is optionally C-amidated
W--> 133 <400> 5
134 Ala Gly Tyr Lys Pro Asp Glu Gly Lys Arg Gly Asp Ala Cys Glu Gly
135 1             5             10             15
136 Asp Ser Gly Gly Pro Phe Val

```

## RAW SEQUENCE LISTING

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Input Set : A:\3033.1008-008 Sequence Listing.txt

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137          20
140 <210> SEQ ID NO: 6
141 <211> LENGTH: 23
142 <212> TYPE: PRT
143 <213> ORGANISM: Artificial Sequence
145 <220> FEATURE:
146 <223> OTHER INFORMATION: thrombin peptide derivative
148 <223> OTHER INFORMATION: Valine at position 23 is amidated with -NH2
W--> 150 <400> 6
151 Ala Gly Tyr Lys Pro Asp Glu Gly Lys Arg Gly Asp Ala Cys Glu Gly
152 1          5          10          15
153 Asp Ser Gly Gly Pro Phe Val
154          20
157 <210> SEQ ID NO: 7
158 <211> LENGTH: 4
159 <212> TYPE: PRT
160 <213> ORGANISM: Artificial Sequence
162 <220> FEATURE:
163 <223> OTHER INFORMATION: fragment of human thrombin
165 <400> SEQUENCE: 7
166 Arg Gly Asp Ala
167 1
170 <210> SEQ ID NO: 8
171 <211> LENGTH: 12
172 <212> TYPE: PRT
173 <213> ORGANISM: Artificial Sequence
175 <220> FEATURE:
176 <223> OTHER INFORMATION: fragment of human thrombin
178 <400> SEQUENCE: 8
179 Asp Ala Cys Glu Gly Asp Ser Gly Gly Pro Phe Val
180 1          5          10
183 <210> SEQ ID NO: 9
184 <211> LENGTH: 12
185 <212> TYPE: PRT
186 <213> ORGANISM: Artificial Sequence
188 <220> FEATURE:
189 <223> OTHER INFORMATION: variant of human thrombin peptide fragment
W--> 191 <221> NAME/KEY: VARIANT
192 <222> LOCATION: 2
193 <223> OTHER INFORMATION: Xaa = Ala or Ser
W--> 195 <221> VARIANT
196 <222> LOCATION: 4
197 <223> OTHER INFORMATION: Xaa = Glu or Gln
W--> 199 <221> VARIANT
200 <222> LOCATION: 11
201 <223> OTHER INFORMATION: Xaa = Phe, Met Leu His or Val
W--> 203 <400> 9
W--> 204 Asp Xaa Cys Xaa Gly Asp Ser Gly Gly Pro Xaa Val
205 1          5          10

```

RAW SEQUENCE LISTING ERROR SUMMARY  
PATENT APPLICATION: US/10/766,752B

DATE: 02/01/2005  
TIME: 12:26:16

Input Set : A:\3033.1008-008 Sequence Listing.txt  
Output Set: N:\CRF4\02012005\J766752B.raw

Please Note:

Use of n and/or Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the <220> to <223> fields of each sequence which presents at least one n or Xaa.

Seq#:2; Xaa Pos. 15,22  
Seq#:4; Xaa Pos. 20,27  
Seq#:9; Xaa Pos. 2,4,11

## VERIFICATION SUMMARY

DATE: 02/01/2005

PATENT APPLICATION: US/10/766,752B

TIME: 12:26:16

Input Set : A:\3033.1008-008 Sequence Listing.txt

Output Set: N:\CRF4\02012005\J766752B.raw

L:52 M:281 W: Numeric Fields not Ordered, <221> Sort in ascending order!  
L:53 M:281 W: Numeric Fields not Ordered, <222> Sort in ascending order!  
L:54 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:2  
L:56 M:281 W: Numeric Fields not Ordered, <221> Sort in ascending order!  
L:57 M:281 W: Numeric Fields not Ordered, <222> Sort in ascending order!  
L:58 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:2  
L:60 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:2  
L:61 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2 after pos.:0  
M:341 Repeated in SeqNo=2  
L:81 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:3  
L:104 M:281 W: Numeric Fields not Ordered, <221> Sort in ascending order!  
L:105 M:281 W: Numeric Fields not Ordered, <222> Sort in ascending order!  
L:106 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:4  
L:108 M:281 W: Numeric Fields not Ordered, <221> Sort in ascending order!  
L:109 M:281 W: Numeric Fields not Ordered, <222> Sort in ascending order!  
L:110 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:4  
L:112 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:4  
L:115 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:4 after pos.:16  
L:133 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:5  
L:150 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:6  
L:191 M:281 W: Numeric Fields not Ordered, <221> Sort in ascending order!  
L:195 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:9  
L:199 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:9  
L:203 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:9  
L:204 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:9 after pos.:0